

Claims:

1. A mounting assembly adapted for mounting a heat sink on an electronic package on a circuit board, the mounting assembly comprising:
a retention module adapted to be mounted on the circuit board, the retention module comprising a pair of columns cooperatively defining a space therebetween adapted for accommodating the heat sink therein; and
a retaining unit cooperating with the columns for securing the heat sink in said space, each of the retaining units comprising:
a retaining clip comprising first and second legs releasably engaging with the columns respectively; and
a pressing body attached to the retaining clip, the pressing body comprising a pressing portion disposed between the retaining clip and the heat sink, an operation portion disposed outside the retaining clip opposite to the pressing portion, and latching devices formed adjacent the operation portion; wherein
upon pressing the operation portion toward the heat sink, the latching devices engage with the retaining clip to retain the pressing body in a locked position and to elastically deform the pressing body to thereby press the heat sink toward the electronic package.
2. The mounting assembly as described in claim 1, wherein the retaining clip further comprises an elongated main body, and the first and second legs are located at opposite first and second ends of the main body respectively.
3. The mounting assembly as described in claim 2, wherein each of the first and second legs forms a hook at a distal end thereof, each of the columns defines a locking hole therein, and the locking holes receive the hooks therein.
4. The mounting assembly as described in claim 2, wherein the main body of the retaining clip comprises a top wall, and two sidewalls extending downwardly

from opposite sides of the top wall, the top wall and sidewalls cooperatively defining a channel therebetween, the pressing body being partly received in said channel.

5. The mounting assembly as described in claim 2, wherein the pressing body comprises a pair of protrusions formed at a first end thereof, and the main body defines a pair of notches in the first end thereof, the notches receiving the protrusions therein.
6. The mounting assembly as described in claim 4, wherein the top wall defines a slot therein, and the pressing body extends into said channel via the slot.
7. The mounting assembly as described in claim 4, wherein the top wall defines a latch opening therein, the latch devices of the pressing body comprise at least one spring finger, said spring finger forms a barb at a distal end thereof, and the barb snappingly engages with the main body at the latch opening to retain the pressing body in said locked position.
8. The mounting assembly as described in claim 7, wherein the latch devices further comprise a pair of releasing arms extending downwardly from opposite sides of the pressing body, and two spring fingers extending from the releasing arms respectively.
9. The mounting assembly as described in claim 8, wherein the spring fingers are disengaged from the main body at the latch opening upon squeezing the releasing arms.
10. A heat sink assembly comprising:
 - a heat sink adapted to contact an electronic device for removing heat generated by the electronic device;
 - a retention device adapted to be mounted on a circuit board; and
 - a retaining unit cooperating with the retention device to sandwich the heat sink

therebetween, the retaining unit comprising:

a retaining clip comprising a main body located above the heat sink, and first and second legs releasably engaging with opposite sides of the retention device; and

a pressing body comprising a pressing portion located between the retaining clip and the heat sink, for pressing the heat sink toward the electronic device when the pressing body is disposed in a locked position, and latch means for engaging with the retaining clip to maintain the pressing body in said locked position; wherein

the pressing body further comprises a releasing device, and upon operating the releasing device to move to an unlocked position, the pressing body is released from said locked position.

11. The heat sink assembly as described in claim 10, wherein complementary interlocking devices are formed on the first and second legs and on opposite sides of the retention device.
12. The heat sink assembly as described in claim 10, wherein the pressing body further comprises an operation portion, and the latch means snappingly engages with the retaining clip upon pressing the operation portion toward the retaining clip.
13. The heat sink assembly as described in claim 10, wherein the main body of the retaining clip comprises a top wall, and two sidewalls extending from opposite sides of the top wall, the top wall and sidewalls cooperatively defining a channel therebetween, and part of the pressing body is received in said channel.
14. The heat sink assembly as described in claim 13, wherein the top wall of the retaining clip defines a slot therein, and the pressing body extends into said channel via the slot.

15. The heat sink assembly as described in claim 10, wherein the retaining clip defines a latch opening therein, the latch means of the pressing body comprises a pair of spring fingers, each of the spring fingers forms a barb at a distal end thereof, and the barbs are engaged in the latch opening.
16. The heat sink assembly as described in claim 15, wherein the releasing device comprises a pair of releasing arms extending from the pressing body, and the spring fingers extend inwardly from respective releasing arms.
17. A heat sink assembly comprising:
- a printed circuit board;
 - a retention device mounted on the printed circuit board;
 - a heat generating device located above the printed circuit board;
 - a heat sink mounted upon the heat generating device;
 - at least one retaining unit positioned upon the heat sink, said retaining unit including:
 - a retaining clip moveable relative to the heat sink and defining a main body with two opposite legs to be respectively engaged with the retention device;
 - and
 - a pressing body attached to the retaining clip in a moveable manner; said pressing body defining a central pressing portion sandwiched between the retaining clip and the heat sink, and at least one upwardly extending resilient portion with a locking finger thereof; wherein
- when said locking finger is locked to the retaining clip, the upwardly extending resilient portion is deflected and results in a reflection force upon the retaining clip to urge the retaining clip to move upwardly whereby the whole retaining unit is in a tension manner for tightly pressing downwardly the heat ink against the heat generating device; oppositely when said locking finger is unlocked from the retaining clip, the upwardly extending resilient portion is relatively undeflected and exposed to an exterior above said retaining clip whereby the whole

retaining unit is in a relaxed manner.